Draft BCP Review Meeting

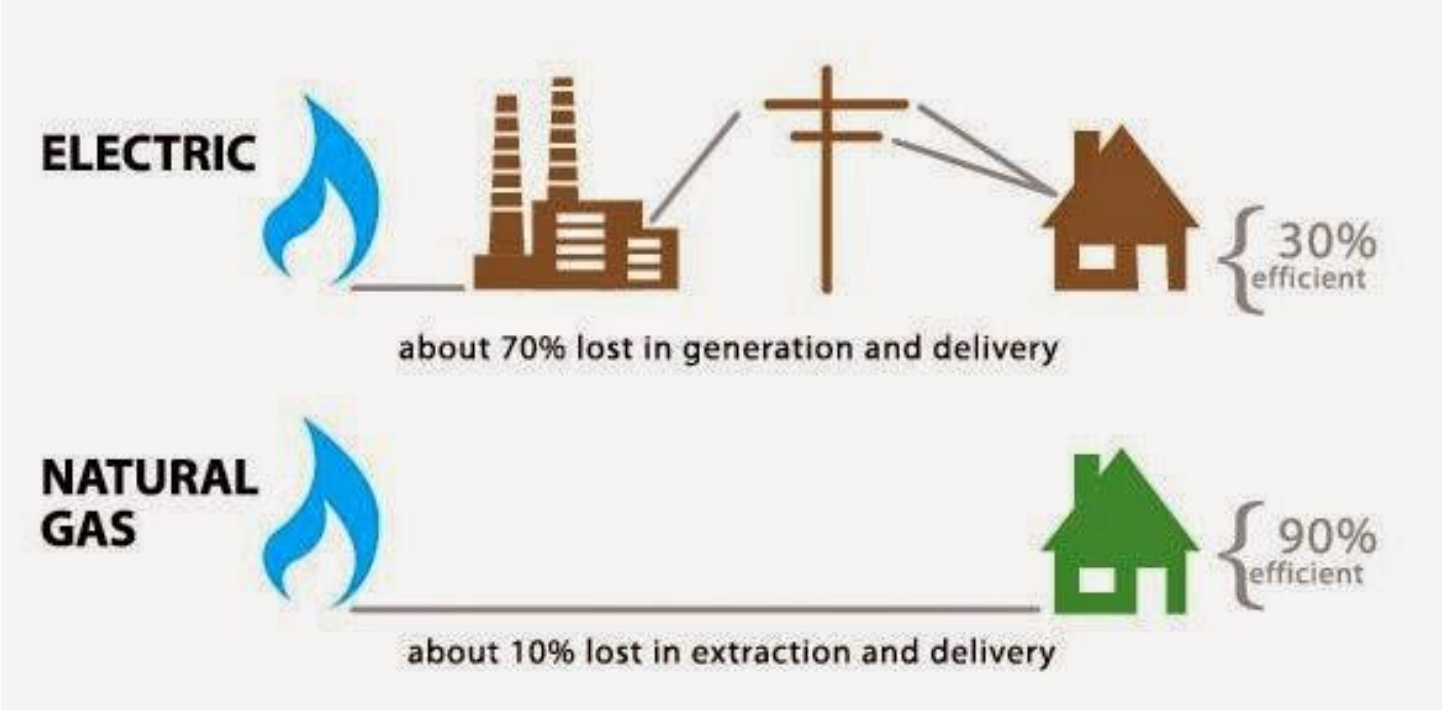
October 24, 2017

WUTC – Room 212

Natural Gas & Fuel Conversions

Tom/Dan

Electric vs. Natural Gas



Natural Gas

- Natural Gas is an important fuel choice for all of our customers, especially limited income
- Natural Gas provides the least cost and smallest energy footprint for space heating and hot water
- Natural Gas has a lower Carbon footprint than that of our Avista Generation mix

Avista Fuel Mix vs. High Efficiency Natural Gas

Electric (Resistance) Customer			
End Use	**Electric Use (kWh)**	**AVA Mix CO2 Metric Tons/Year**	**Customer Cost**
Furnace[1]	7,485	2.636	$799.70
Water Heat[1]	3,790	1.335	$404.92
Combined	11,275	**3.970**	**$1,204.62**

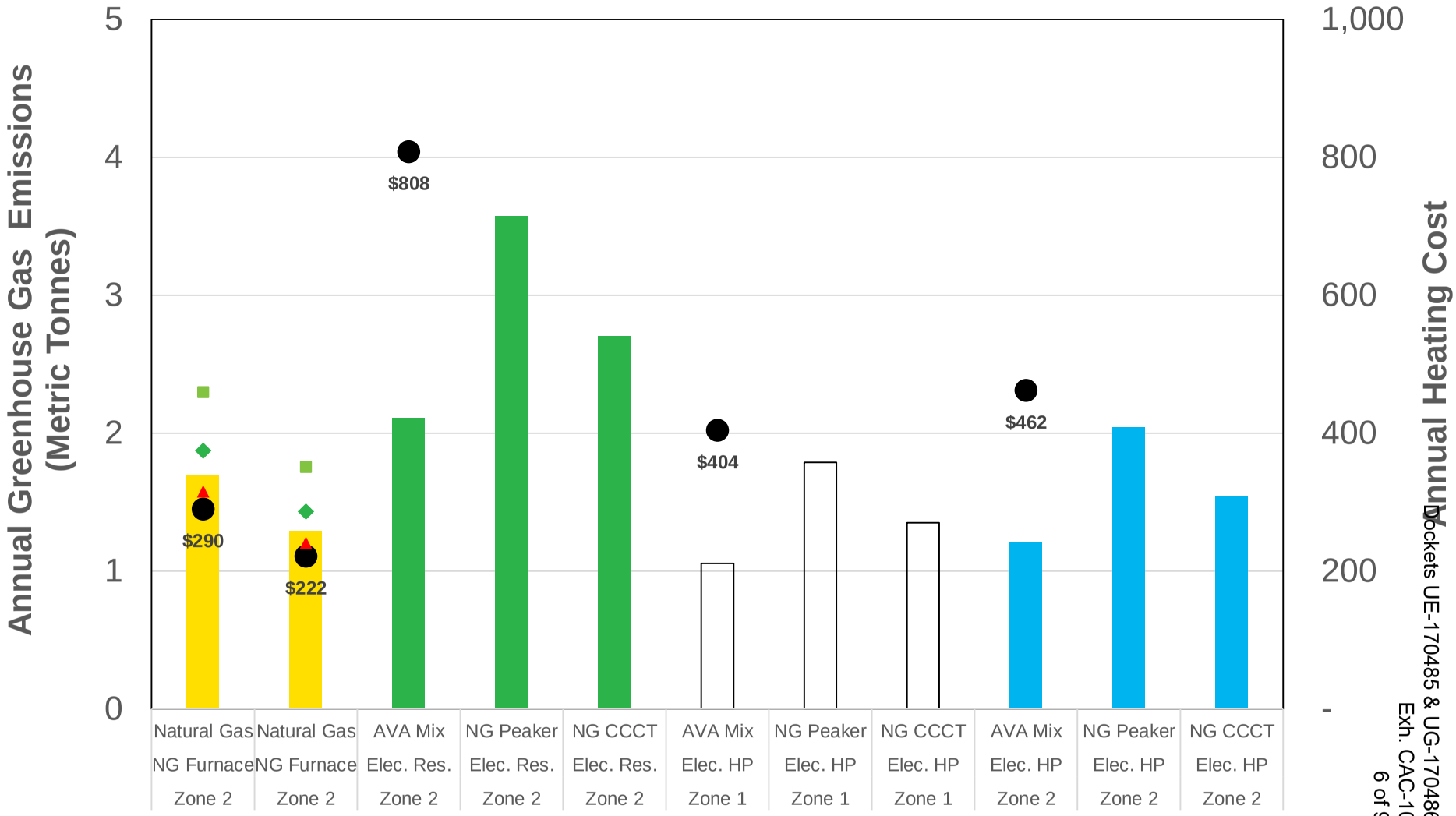
$0.10684 WA Sched 1
Highest Rate
> 1500 kWHr

Natural Gas Customer			
End Use	**Therms @ Best Available**	**Direct Use Metric Tons/Year**	**Customer Cost**
Furnace[2]	284	1.507	$249.86
Water Heat[3]	209	1.108	$183.65
Combined	**492**	**2.614**	**$433.52**

$0.88027 WA Sched 101
Highest Rate
> 70 Therms

End Use	Savings Customer Metric Tons Per Year Savings	Customer Fuel Cost Savings

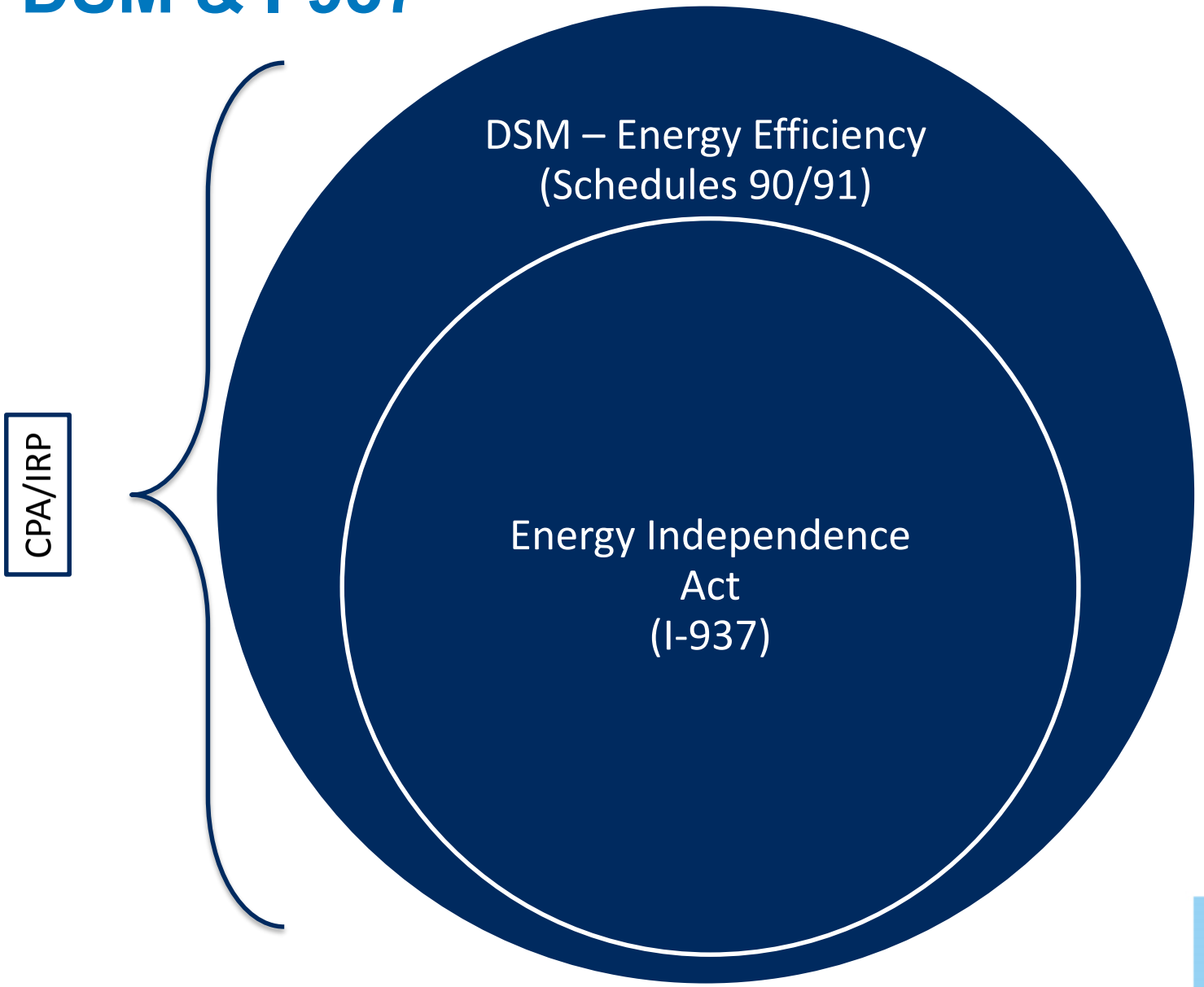
Emissions and Cost of Fuel Types by Heating Zone



Conversions

- Conversions and I-937 are subsets of the overall Integrated Resource Plan Conservation optimization
- Conversions are embedded in the Company's load forecast that drives the deferral of generation needs and future resource planning
- Conversions benefit the electric grid and benefit all electric customers

DSM & I-937


DSM – Energy Efficiency
(Schedules 90/91)
Energy Independence
Act
(I-937)
CPA/IRP

Fuel Conversion Budget Breakdown

Avista 2018/2019 Fuel Conversions			
Measure	**Plan Units**	**Plan Incentive**	**Incentive Cost**
ELEC RES --> CENTRAL NG	866	$ 2,000	$ 1,732,000
E --> NG Space and DHW	1,586	$ 2,750	$ 4,361,500
E --> NG DIRECT VENT WALL HEAT	58	$ 1,300	$ 75,400
Total	2,510	$ 6,050	$ 6,168,900